Journal of Surgical Oncology

Table of Contents

Volume 83, Number 1, May 2003

Editorial: Clinical Significance of Immunohistochemically Detectable Epithelial Cells in Sentinel Lymph Node and Bone Marrow in Breast Cancer
Michael D. Lagios 1

Third Look Surgery and Beyond for Appendiceal Malignancy With Peritoneal Dissemination
Faheez Mohamed, David Chang, and Paul H. Sugarbaker 5
The management of patients with recurrent mucinous appendiceal neoplasms with peritoneal surface dissemination continues to evolve as an understanding of the clinical and pathological features of this disease improve. Repeated use of multiple peritonectomy procedures combined with intraperitoneal chemotherapy increased the likelihood of 5-year survival, although cancer cure was a rare event.

Commentary
Lawrence E. Harrison 12

Factors Predictive of Survival for Esophageal Carcinoma Treated With Preoperative Radiotherapy With or Without Chemotherapy Followed by Surgery
Alexander M. Yeh, William M. Mendenhall, Christopher G. Morris, Robert A. Zlotecki, Rodwige J. Desnoyers, and Stephen B. Vogel 14
Patients able to complete a course of preoperative radiotherapy (without significant interruption) followed by definitive surgery show statistically significant improvement in survival rates. Patients with initial tumor size less than 5 cm who have a definitive resection with a complete or partial pathologic response show the most benefit from the preoperative radiotherapy regimen.

Clinical Spectrum of Primary Mediastinal Tumors: A Comparison of Adult and Pediatric Populations at a Single Japanese Institution
Shin-ichi Takeda, Shinichiro Miyoshi, Akinori Akashi, Mitsunori Ohta, Masato Minami, Meinoshin Okumura, Akira Masaoka, and Hikaru Matsuda 24
A Japanese single-institutional experience of primary mediastinal tumors is retrospectively reviewed, emphasizing the clinical spectrum of the disease related to the differences between pediatric and adult populations.

Myocutaneous Versus Thoraco-Abdominal Flap Cover for Soft Tissue Defects Following Surgery for Locally Advanced and Recurrent Breast Cancer
S.V. Suryanarayana Deo, Joydeep Purkayastha, Nootan K. Shukla, and Sonal Asthana 31
A comparative analysis of the use of these flap cover methods on advanced breast cancer patients was performed in relation to operative time, blood loss, morbidity, hospital stay, and final outcome.

Laparoscopic Radiofrequency Ablation of the Liver in Proximity to Major Vasculature: Effect of the Pringle Maneuver
Perry Shen, Shawn Fleming, Carl Westcott, and Venkat Challa 36
Laparoscopic radiofrequency ablation adjacent to major hepatic vasculature with vascular inflow occlusion was performed in a pig model. There was no significant increase in ablation zone volumes or evidence of vascular injury.

Budding as a Useful Prognostic Marker in pT3 Well- or Moderately-Differentiated Rectal Adenocarcinoma
Takashi Okuyama, Masatoshi Oya, and Hiroshi Ishikawa 42
The current study was undertaken to correlate budding at the invasive front of pT3 well- or moderately differentiated rectal adenocarcinomas with routine pathological findings and postoperative survival. The results of this study suggest that budding is a useful pathological marker indicating increased malignant potential, and high risk of recurrence and short postoperative survival.

How I Do It: Radioguided Excision of the Nonpalpable Breast Cancer and Simultaneous Sentinel Lymphnode Biopsy Using A Single Radiopharmaceutical: An Original Approach to Accurate Administration of the Blue Dye
Janez Žgajnar, Nikola Bešič, Snježana Frković-Grazio, Marko Hočevar, Barbara Vidergar, Miljeva Rener, and Jurij Lindtner 48

How I Do It: Siting of Drains After Surgery
Harit Kumar Chaturvedi and Kadayaprath Geeta 51

Commentary
Constantine P. Karakousis 52

How I Do It: Harvesting a Free Jejunal Graft With a Small Skin Incision
Kenji Omura, Eiji Kanehira, Hiroshi Ohtake, Hidemaro Yoshiba, Chikashi Hiranuma, Kaeko Oyama, Noriyuki Inaki, Yasumitsu Hirano, and Go Watanabe 53

Volume 83, Number 2, June 2003

Guest Editorial: Breast Cancer—Have We Been Chasing the Wrong Target?
William C. Dooley 57

Editorial: Global Issues in Surgical Oncology
Walley J. Temple 61

International Issues: Emerging Patterns of Practice in the Implementation and Application of Sentinel Lymph Node Biopsy in Breast Cancer Patients in Canada
Geoffrey A. Porter 62

International Issues: Emerging Patterns of Practice in the Implementation and Application of Sentinel Lymph Node Biopsy in Breast Cancer Patients in the United States
Angela Shoher and Anthony Lucci 65

Surgeon Volume Compared to Hospital Volume as a Predictor of Outcome Following Primary Colon Cancer Resection
Deborah Schrag, Katherine S. Panageas, Elyn Riedel, Lillian Hsieh, Peter B. Bach, Jose G. Guillem, and Colin B. Begg 68
Both hospital and surgeon-specific procedure volume predict outcomes following colon cancer resection; but hospital volume may exert a stronger effect.

Commentary
Harry D. Bear 78

The Role of Preoperative Ultrasound Scan in Detecting Lymph Node Metastasis Before Sentinel Node Biopsy in Melanoma Patients
Carlo Riccardo Rossi, Simone Mocellin, Barbara Scagnet, Mirto Foletto, Antonella Vecchiato, Pierluigi Pilati, Alberto Tregnaghi, Giorgio Zavagno, Roberto Stramare, Leopoldo Rubaltelli, Cristina Montesco, Simonetta Borsato, Domenico Rubello, and Mario Lise 80
To evaluate the efficacy of preoperative ultrasound scanning in identifying lymph node metastasis before sentinel node biopsy (SNB), a prospective study was conducted on 125 patients with primary cutaneous melanoma. In a small percentage of cases, preoperative ultrasound scan could obviate the SNB procedure, thus improving the patient's quality of life and reducing health care costs.

Heterogeneic Expression of Estrogen Receptor Between the Primary Tumor and the Corresponding Involved Lymph Nodes in Patients With Node-Positive Breast Cancer and Its Implications in Patient Outcome
Chikage Iguchi, Yoshinori Nio, and Masayuki Itakura 85
The estrogen receptor expression was discordant between primary tumor and involved lymph node in about 24% of the breast cancers evaluated, and estrogen receptor expression in involved lymph node had less influence on patient prognosis than estrogen receptor expression in the corresponding primary tumor.

Clinicopathological Characteristics of Superficial Spreading Type Early Gastric Cancer
Masato Imai, Yukifumi Kondo, Shohei Osawa, Yasunori Nishida, Kuniaki Okada, Hiroyuki Ishizu, Hiroyuki Masuko, Tsunetake Hata, Kazuhito Uemura, Masaya Kina, Shohei Honda, Gentaro Ishiyama, Toru Takahashi, and Atsushi Hino 94
We clarified the clinicopathological characteristics of the superficial spreading type of early gastric cancer using hospital records. To avoid remnant tumor and lymph node recurrence, the most appropriate treatment for this type of cancer is wide surgical resection with extensive lymph node dissection.

Apolipoprotein D Expression in Cutaneous Malignant Melanoma
Eva Miranda, Francisco Vizoso, Arancha Martín, Isabel Quintela, María Daniela Corte, María Eugenia Seguí, Iratxe Ordiz, and Antonio Martínez Merino 99
The expression and possible clinical significanced of apolipoprotein D is investigated in a series of cutaneous malignant melanoma.

Clinicopathologic and Immunohistochemical Study of Surgically Treated Primary Gastric MALT Lymphoma
Luigi Insabato, Dolores Di Vizio, Luigi Tornillo, Francesco P. D'Armiento, Antonella Siciliano, Mario Milo, Giovanna Palmieri, Guido Pettinato, and Luigi M. Terracciano 106
The clinicopathologic and immunohistochemical findings of lymphoma occurring in the stomach of 99 patients were analyzed, along with a correlation with clinical outcome.

Soluble Fas (*sFas*) and Soluble Fas Ligand (*sFas-L*) Balance in Laryngeal Carcinoma Before and After Surgical Treatment
Lorenzo Pignataro, Elena Arisi, Giuseppe Sambataro, and Massimiliano Marco Corsi 112
Serum sFas and sFas-L levels were evaluated in laryngeal squamous cell carcinoma patients to determine if they are related to surgical treatment.

Review Article: Current Management of Mucosal Melanoma of the Head and Neck
Jesus E. Medina, Alfio Ferlito, Phillip K. Pellitteri, Ashok R. Shaha, Avi Khafif, Kenneth O. Devaney, Samuel R. Fisher, Christopher J. O'Brien, Robert M. Byers, K. Thomas Robbins, Karen T. Pitman, and Alessandra Rinaldo 116

How I Do It: Superelastic Ti–Ni Alloy Wire Intramedullary Nails for Metastatic Femoral Pathologic Fracture: A Case Report
Yuichi Kasai, Kenji Takegami, Akihiko Matsumine, Masataka Kawamoto, and Atsumasa Uchida 123

Volume 83, Number 3, July 2003

Guest Editorial: The Sacred Trust of Research on Human Subjects
Scott H. Kurtzman 129

Guest Editorial: Adjuvant Therapy Is Valuable in the Treatment of Rectal Cancer Despite Total Mesorectal Excision
Patrick Colquhoun, Steven D. Wexner, and Alfred Cohen 133

Randomised Clinical Trial of Adjuvant Postoperative RT vs. Sequential Postoperative RT Plus 5-FU and Levamisole in Patients With Stage II–III Resectable Rectal Cancer: A Final Report
Ferdinando Cafiero, Marco Gipponi, Rita Lionetto, and the P.A.R. Cooperative Study Group 140
The efficacy and toxicity of adjuvant postoperative radiation therapy as compared to sequential RT and chemotherapy with 5-fluorouracil (5-FU) plus levamisole was assessed in 218 patients undergoing radical surgery for stage II–III rectal cancer. No significant difference in overall survival, loco-regional and distant site progressions was observed, although the combined regimen was associated with higher toxicity, mostly gastrointestinal.

Peritoneal Mesothelioma Treated by Induction Chemotherapy, Cytoreductive Surgery, and Intraperitoneal Hyperthermic Perfusion
Marcello Deraco, Paolo Casali, M.G. Inglese, Dario Baratti, Elisabetta Pennacchioli, Rossella Bertulli, and Shigeki Kusamura 147
A novel therapeutic approach to patients with malignant PM is evaluated in terms of toxicity, morbidity, and survival.

Ewing's Sarcoma of the Pelvis: Combined Surgery and Radiotherapy Treatment
Robert W. Rödl, Christiane Hoffmann, Georg Gosheger, Benedikt Leidinger, Heribert Jürgens, and Winfried Winkelmann 154
The overall 5- and 10-year survival of local surgery and radiotherapy of pelvic Ewing's sarcoma in combination with neoadjuvant chemotherapy was 45%. The surgical treatment leads to measurable functional deficits, but global quality of life shows no major alteration.

Pancreatic Resection for Metastatic Tumors to the Pancreas
Cosimo Sperti, Claudio Pasquali, Guido Liessi, Luca Pinciroli, Giandomenico Decet, and Sergio Pedrazzoli 161
Resectable metastases to the pancreas from other neoplasms are rare. Resection of pancreatic metastases and, in selected cases, limited extrapancreatic disease may offer the chance of long-term survival.

Commentary
Sharon M. Weber 166

Prognostic Factors Affecting Survival and Disease-Free Survival in Lymph Node-Negative Breast Carcinomas
Bekir Kuru, Mithat Camlibel, Mehmet Ali Gulcelik, and Haluk Alagol 167
Patients who have a tumor with size greater than 2 cm, with histologic grade 3, with lymphovascular invasion, and patients with age under 35 or older than 49 have poorer prognosis among node-negative breast carcinomas, and are candidates for adjuvant therapy.

Significance of Thymidine Phosphorylase in HCC With Chronic Liver Disease for Long-Term Postoperative Recurrence
Takahiro Ezaki, Toru Ikegami, Teruyoshi Ishida, Shiomi Aimitsu, Masaki Mori, and Megumu Fujihara 173
Measurement of thymidine phosphorylase activity of adjacent normal liver tissue to HCC may be useful to predict metachronous long-term postoperative recurrence.

Commentary
Jorge Ortiz, Radi Zaki, David Reich, and Cosme Manzarbeitia 179

Levels of Soluble Intercellular Adhesion Molecule-1 and Total Sialic Acid in Serum of Patients With Colorectal Cancer
Mahmut Basoglu, Mehmet Ilhan Yildirgan, Seyithan Taysi, Ismayil Yilmaz, Ahmet Kiziltunc, Ahmet A. Balik, Fehmi Celebi, and Sabri Selcuk Atamanalp 180
Serum TSA and sTCAM-1 levels were investigated in colorectal cancer and correlated with cancer stage.

Effect of Radiation and Cell Implantation on Wound Healing in a Rat Model
Dale Dantzer, Peter Ferguson, Richard P. Hill, Armand Keating, Rita A. Kandel, Jay S. Wunder, Brian O'Sullivan, Jas Sandhu, Jennifer Waddell, and Robert S. Bell 185
The effect of fibroblasts and syngeneic marrow stromal cells are tested on irradiated deep and superficial wounds.

How I Do It: Mastectomy Performed With Scissors Following Tumescent Solution Injection
Angela Shoher, Ron Hekier, and Anthony Lucci Jr. 191

Volume 83, Number 4, August 2003

Editorial Commentary: The International Union Against Cancer (UICC) and Opportunities to Reduce the Global Cancer Burden
John Seffrin 195

Total Abdominal Colectomy, Pelvic Peritonectomy, and End-Ileostomy for the Surgical Palliation of Mucinous Peritoneal Carcinomatosis From Non-Gynecologic Cancer
Konstantinos M. Stamou, Stavros Karakozis, and Paul H. Sugarbaker 197
Possible benefits of a new and more aggressive approach to the surgical palliation of peritoneal carcinomatosis are evaluated.

Recovery of Upper Limb Function After Axillary Dissection
Rik Gosselink, Lieven Rouffaer, Peter Vanhelden, Wim Piot, Thierry Troosters, and Marie-Rose Christiaens 204
Impaired shoulder mobility and ADL persisted 3 months after breast surgery in a substantial number of patients. Type of surgery and axillary irradiation contributed significantly to upper limb recovery.

Gallbladder Cancer Invading the Perimuscular Connective Tissue: Results of Reresection After Prior Non-Curative Operation
Andrea Muratore, Marco Amisano, Luca Viganò, Paolo Massucco, and Lorenzo Capussotti 212
An evaluation of prognostic factors and long-term results of reresections after prior non-curative surgery for T2 gallbladder cancer.

Risk Factors for Multicentric Occurrence of Carcinoma in the Upper Aerodigestive Tract—Analysis With a Serial Histologic Evaluation of the Whole Resected-Esophagus Including Carcinoma
Masaru Morita, Koshi Araki, Hiroshi Saeki, Yoshihisa Sakaguchi, Hideo Baba, Keizo Sugimachi, Koichi Yano, Kenji Sugio, and Kosei Yasumoto 216
A serial histologic evaluation of the entire non-irradiated esophagus revealed that the number of carcinomas in the upper aerodigestive tract (UADT) was closely related not only to smoking and drinking habits but also to both the family history of UADT cancer and that of lung cancer. These findings strongly support the hypothesis that heavy smoking and heavy drinking as well as both a family history of UADT and lung cancer might be risk factors for the multicentric occurrence of carcinoma in the UADT.

Serum Interleukin-6 Levels Reflect the Disease Status of Colorectal Cancer
Yuan-Chang Chung and Ya-Fen Chang 222
High levels of serum IL-6 (>12 pg/ml) correlate with progression of colorectal cancer. IL-6 levels also increase in stage-related manner. Although serum IL-6 also correlates with survival, it is not an independent prognostic indicator.

Color Multiplex Polymerase Chain Reaction for Quantitative Analysis of Epidermal Growth Factor Receptor Genes in Colorectal Adenocarcinoma
Lester J. Layfield, Philip S. Bernard, and Neil S. Goldstein 227
Epidermal growth factor receptor is overexpressed in many colonic adenocarcinomas. EGFR overexpression in colonic adenocarcinomas does not appear to arise through the pathway of gene amplification.

BRCA1 Expression in Leukoplakia and Carcinoma of the Tongue
Hemangini H. Vora, Neelam G. Shah, Devendra D. Patel, Trupti I. Trivedi, and Tejal J. Choksi 232

Prognostic Implication of Cyclin E Expression and Its Relationship With Cyclin D1 and p27Kip1 Expression on Tissue Microarrays of Node Negative Breast Cancer
Sehwan Han, Kyeongmee Park, Byung-Noe Bae, Ki Hwan Kim, Hong-Joo Kim, Young-Duck Kim, and Hong-Yong Kim 241
Cyclin E expression has been associated with poor survival in node-negative breast cancer patients after CMF chemotherapy and correlated with the expression of p27Kip1 and cyclin D1. Integration of TMA technology into clinical cancer research will contribute to our knowledge of the pattern of expression of multiple tumor markers and to understanding tumor biology with rapidity and accuracy.

Elevation of Preoperative Serum C-Reactive Protein Level Is Related to Poor Prognosis in Esophageal Squamous Cell Carcinoma
Hideaki Shimada, Yoshihiro Nabeya, Shin-Ichi Okazumi, Hisahiro Matsubara, Tooru Shiratori, Taito Aoki, Makoto Sugaya, Yukimasa Miyazawa, Hideki Hayashi, Shin-Ichi Miyazaki, and Takenori Ochiai 248
This article documents the clinicopathological significance of preoperative serum C-reactive protein (CRP) levels in patients with primary squamous cell carcinoma after curative surgery without any preoperative treatment. We found that the CRP level was associated with tumor progression and poor prognosis.

Role of MUC1 and MUC5AC Expressions as Prognostic Indicators in Gastric Carcinomas
Jaw-Yuan Wang, Chiao-Tang Chang, Jan-Sing Hsieh, Li-Wei Lee, Tsung-Jen Huang, Chee-Yin Chai, and Shiu-Ru Lin 253
The combined evaluation of MUC1 and MUC5AC mucin staining is a potential method to predict the prognosis of patients with gastric carcinoma.

How I Do It: Total Anterior Parietal Peritonectomy
Vinicius de Lima Vazquez and Paul H. Sugarbaker 261

Author Index to Volume 83 264

Subject Index to Volume 83 266